

SEQUENCE LISTING

<110> Floege, Juergen
Gazit, Gadi
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LaRochelle, William
Lichenstein, Henri

<120> METHOD FOR THE TREATMENT OF NEPHRITIS
USING ANTI-PDGF-DD ANTIBODIES

<130> ABGENIX.052A

<150> 60/411,137

<151> 2002-09-16

<160> 97

<170> FastSEQ for Windows Version 4.0

<210> 1

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<212> DNA

<213> homo sapiens

<400> 1

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actggacaag ggcttgagtg gatgggatgg ataaacccta atagtggtaa cacagactat 180
gcacagaagt tccagggcag agtcaccatg accagggaca cctccataag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccatat attattgtgt gagaggcttt 300
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<210> 2

<211> 125

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<213> homo sapiens

<400> 2

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
      20          25          30
Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
      35          40          45
Gly Trp Ile Asn Pro Asn Ser Gly Asn Thr Asp Tyr Ala Gln Lys Phe
      50          55          60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
      65          70          75          80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys
      85          90          95
Val Arg Gly Phe Gly Tyr Ser Tyr Asn Tyr Asp Tyr Tyr Tyr Gly Met
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Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser
	115					120					125	

<210> 3
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 <212> DNA
 <213> homo sapiens

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 cctggccagg ctcccagget cctcatctat gctacatcca gcagggccac tggcatccca 180
 gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
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 caggggacca agctggaaat caagc 325

<210> 4
 <211> 108
 <212> PRT
 <213> homo sapiens

<400> 4
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 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Ala Thr Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
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 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 Cys Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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<210> 5
 <211> 379
 <212> DNA
 <213> homo sapiens

<400> 5
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 ccaggggaagg ggctggagtg ggtctcatcc attagtagta gtagtagtaa catatactac 180
 gcagactcag tgaagggccg attcaccatc tccagagaca acgccaagaa ctactgtat 240
 ctgcaaataga acagcctgag agccgaggac acggctgtat attactgtgc gagagatatt 300
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 ctgggtcaccg tctcctcag 379

<210> 6

<211> 126
 <212> PRT
 <213> homo sapiens

<400> 6
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Arg Thr Tyr
 20 25 30
 Asn Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Ser Ser Ser Ser Ser Asn Ile Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Ile Met Ile Thr Phe Gly Gly Ile Ile Ala Ser Phe Tyr
 100 105 110
 Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 7
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 <213> homo sapiens

<400> 7
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 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgctcac tttcggcgga 300
 gggaccaagg tggagatcaa ac 322

<210> 8
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 8
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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 20 25 30
 Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Leu
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

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105

<210> 9
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 ccaggggaagg ggctggagtg ggtctcagtt atttatagcg gtggtagcac atactacgca 180
 gactccgtga agggccgatt caccatctcc agagacaatt ccaagaacac gctgtatctt 240
 caaatgaaca gcctgagagc cgaggacacg gccgtgtatt actgtgcggg aacgggtgact 300
 acgaattact actacggtat ggacgtctgg ggccaaggga ccacggtcac cgtctcctca 360
 g 361

<210> 10
 <211> 120
 <212> PRT
 <213> homo sapiens

<400> 10
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 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn
 20 25 30
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Gly Thr Val Thr Thr Asn Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
 100 105 110
 Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 11
 <211> 334
 <212> DNA
 <213> homo sapiens

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 tacctgcaga agccagggca gtctccacag ctccctgatct atttgggttc taatcgggcc 180
 tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
 agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaactctc 300
 actttcggcg gagggaccaa ggtggagatc aaac 334

<210> 12

<211> 111
 <212> PRT
 <213> homo sapiens

<400> 12
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Gln Ser
 20 25 30
 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95
 Leu Gln Thr Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 13
 <211> 379
 <212> DNA
 <213> homo sapiens

<400> 13
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 ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat 180
 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatac acagcctgag agccgaggac acggctgtgt attactgtgc gagagatcaa 300
 ggatacagat atgctggtta ctactacgac tacgggtatgg acgtctgggg ccaagggacc 360
 acggtcaccg tctcctcag 379

<210> 14
 <211> 126
 <212> PRT
 <213> homo sapiens

<400> 14
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Lys
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gln Gly Tyr Arg Tyr Ala Gly Tyr Tyr Tyr Asp Tyr Gly
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 15
 <211> 322
 <212> DNA
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 gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgctcac tttcggcgga 300
 gggaccaagg tggagatcaa ac 322

<210> 16
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 16
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Leu
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 17
 <211> 379
 <212> DNA
 <213> homo sapiens

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 tcttgcaagg cttctggata caccttcacc agttatgata tcaactgggt gcgacaggcc 120
 actggacaag ggcttgagtg gatgggatgg atgaacccaa acagtggtaa cacaggctat 180
 gcacagaagt tccagggcag agtcaccatg accaggaaca cctccataag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagagaggggt 300
 atagcagtgg ctgggacata ctactactac tacggtatgg acgtctgggg ccaaggggacc 360
 acggtcaccg tctcctcag 379

<210> 18
 <211> 126

<212> PRT

<213> homo sapiens

<400> 18

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala		
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Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr		
			20					25					30				
Asp	Ile	Asn	Trp	Val	Arg	Gln	Ala	Thr	Gly	Gln	Gly	Leu	Glu	Trp	Met		
		35					40					45					
Gly	Trp	Met	Asn	Pro	Asn	Ser	Gly	Asn	Thr	Gly	Tyr	Ala	Gln	Lys	Phe		
	50					55					60						
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asn	Thr	Ser	Ile	Ser	Thr	Ala	Tyr		
65					70					75					80		
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85					90						95		
Ala	Arg	Glu	Gly	Ile	Ala	Val	Ala	Gly	Thr	Tyr	Tyr	Tyr	Tyr	Tyr	Gly		
			100					105						110			
Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser				
		115					120						125				

<210> 19

<211> 322

<212> DNA

<213> homo sapiens

<400> 19

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gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
gaagattttg caacttattt ctgtctacag cataatagtt acccattcac tttcggcct 300
gggaccaaag tggatatcaa ac 322

<210> 20

<211> 107

<212> PRT

<213> homo sapiens

<400> 20

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly		
1				5				10						15			
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn	Asp		
			20					25					30				
Leu	Gly	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Arg	Leu	Ile		
	35					40						45					
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly		
	50					55					60						
Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro		
65					70					75				80			
Glu	Asp	Phe	Ala	Thr	Tyr	Phe	Cys	Leu	Gln	His	Asn	Ser	Tyr	Pro	Phe		
			85						90					95			
Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys							
		100						105									

<210> 21
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 <212> DNA
 <213> homo sapiens

<400> 21
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 tcttgcaagg cttctggata caccttcacc agttatgata tcaactgggt gcgacaggcc 120
 actggacaag ggcttgagtg gatgggatgg atgaacccta acagtggtaa cacaggctat 180
 gcacagaagt tccagggcag agtcaccatg accaggaaca cctccataag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagagacgtt 300
 atgattacgt ttgggggagt tatcgtgcac tacggtatgg acgtctgggg ccaagggacc 360
 acggtcaccg tctcctcag 379

<210> 22
 <211> 126
 <212> PRT
 <213> homo sapiens

<400> 22
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Val Met Ile Thr Phe Gly Gly Val Ile Val His Tyr Gly
 100 105 110
 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 23
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 23
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 atcacttgcc gggcaagtca gggcattaga aatgatttag gctggtatca gcagaaacca 120
 gggaaagccc ctaagcgctt gatctatgct gcattcagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagat ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtg acccgtgcag ttttggccag 300
 gggaccaagc tggagatcag ac 322

<210> 24
 <211> 107

<212> PRT

<213> homo sapiens

<400> 24

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1             5             10             15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
          20          25          30
Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
          35          40          45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
          50          55          60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65          70          75          80
Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Asp Pro Cys
          85          90          95
Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Arg
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<210> 25

<211> 379

<212> DNA

<213> homo sapiens

<400> 25

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tcctgtgagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gagacatgta 300
tcgtattact atgtttcggg gagttattat aacgtctttg actactgggg ccaggaacc 360
ctggtcaccg tctcctcag                                     379
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<210> 26

<211> 126

<212> PRT

<213> homo sapiens

<400> 26

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Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1             5             10             15
Ser Leu Lys Ile Ser Cys Glu Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
          20          25          30
Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
          35          40          45
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
          50          55          60
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65          70          75          80
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
          85          90          95
Ala Arg His Val Ser Tyr Tyr Tyr Val Ser Gly Ser Tyr Tyr Asn Val
          100          105          110
Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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115

120

125

<210> 27

<211> 322

<212> DNA

<213> homo sapiens

<400> 27

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gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaacgtgg ggtcccatca 180
agggtcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
gggaccaagg tggaaatcaa ac                                     322

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<210> 28

<211> 107

<212> PRT

<213> homo sapiens

<400> 28

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1           5           10           15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
      20           25           30
Leu Gly Trp Tyr Gln Gln Ile Pro Gly Lys Ala Pro Lys Arg Leu Ile
      35           40           45
Tyr Ala Ala Ser Ser Leu Gln Arg Gly Val Pro Ser Arg Phe Ser Gly
      50           55           60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65           70           75           80
Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
      85           90           95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
      100           105

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<210> 29

<211> 379

<212> DNA

<213> homo sapiens

<400> 29

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ccaggcaagg ggctggagtg ggtggcagat atatggtatg atggaagtaa taaatactat 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggctgtgt attattgtgc gagagatcag 300
ggatacagct atggttacgt ctactacgac tacgggtatgg acgtctgggg ccaagggacc 360
acggtcaccg tctcctcag                                     379

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<210> 30

<211> 126

<212> PRT

<213> homo sapiens

<400> 30

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5				10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ser	Tyr
			20					25					30		
Gly	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	Asp	Ile	Trp	Tyr	Asp	Gly	Ser	Asn	Lys	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Asp	Gln	Gly	Tyr	Ser	Tyr	Gly	Tyr	Val	Tyr	Tyr	Asp	Tyr	Gly
			100					105					110		
Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser		
		115					120						125		

<210> 31

<211> 322

<212> DNA

<213> homo sapiens

<400> 31

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atcacttgcc gggcaagtca gggcattaga aatgatttag gctggatatca gcagaaacca 120
gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
agggttcagcg gcagtggatc tgggacagag ttcactctca caatcagcag cctgcagcct 240
gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
gggaccaagg tggaaatcaa ac 322

<210> 32

<211> 107

<212> PRT

<213> homo sapiens

<400> 32

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10					15		
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn	Asp
			20					25					30		
Leu	Gly	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Arg	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75				80	
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	His	Asn	Ser	Tyr	Pro	Trp
			85						90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys					
		100						105							

<210> 33
 <211> 379
 <212> DNA
 <213> homo sapiens

<400> 33
 gaggtgcagc tgggtgcagtc gggagcagag gtgaaaaaagc ccggggagtc tctgaagatc 60
 tcctgtaagg gttctggata caggtttacc agctactgga tcggctgggt gcgccagatg 120
 cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
 agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
 ctgcagtggg gcagcctgaa ggcctcggac accgccatgt attactgtgc gagacatgga 300
 tcgtattatt atggttcgga gacttattat aatgtctttg actactgggg ccagggaacc 360
 ctggtcaccg tctcctcag 379

<210> 34
 <211> 126
 <212> PRT
 <213> homo sapiens

<400> 34
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Arg Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Gly Ser Tyr Tyr Tyr Gly Ser Glu Thr Tyr Tyr Asn Val
 100 105 110
 Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 35
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 35
 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcaagtc gggcattaga aatgatttag gctggtatca gcagaaacca 120
 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
 gggaccaagg tggaaatcaa ac 322

<210> 36
 <211> 107
 <212> PRT

<213> homo sapiens

<400> 36

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1           5           10           15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
          20           25           30
Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
          35           40           45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
          50           55           60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65           70           75           80
Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
          85           90           95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
          100          105
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<210> 37

<211> 388

<212> DNA

<213> homo sapiens

<400> 37

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gaggtgcagc tgggtgcagtc gggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatctcg gtgactctga taccagatac 180
agcccgctcct tccaaggcca ggccaccatc tcagccgaca agtccatcag caccgcctac 240
ctgcagtggg gcagcctgaa ggccctcgga accgccatgt attactgtgc gagacacgtg 300
gatgtagggg ctacgattgg gggatattac tattactacc acggtatgga cgtctggggc 360
caagggaacca cggtcacctg ctccctcag                                     388
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<210> 38

<211> 129

<212> PRT

<213> homo sapiens

<400> 38

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Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1           5           10           15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
          20           25           30
Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
          35           40           45
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
          50           55           60
Gln Gly Gln Ala Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65           70           75           80
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
          85           90           95
Ala Arg His Val Asp Val Gly Ala Thr Ile Gly Gly Tyr Tyr Tyr Tyr
          100          105          110
Tyr His Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
          115          120          125
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Ser

<210> 39
<211> 340
<212> DNA
<213> homo sapiens

<400> 39
gatattgtga tgactcagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc 60
atctcctgca ggtctagtc gagcctcctg catagtaatg gatacaacta tttggattgg 120
tacctgcaga agccagggca gtctccacaa ctctgatct atttgggttc taatcggggc 180
tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
agcagagtgg aggctgacga tgttgggggt tattactgca tgcaagctct acaatctctc 300
atgtgcagtt ttggccaggg gaccaagctg gagatcaaac 340

<210> 40
<211> 113
<212> PRT
<213> homo sapiens

<400> 40
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
20 25 30
Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Asp Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95
Leu Gln Ser Leu Met Cys Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile
100 105 110
Lys

<210> 41
<211> 382
<212> DNA
<213> homo sapiens

<400> 41
caggttcagc tgggtcagtc gggagctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcttgcaagg ctcttggtta cacctttacc agctatggta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagt gatgggatgg atcagcgctt acaatggtaa cacaaactat 180
gcacagaagc tccagggcag agtcaccatg accacagaca catccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagatcat 300
tactatgata gtagtgatta tctctactac tactacggtt tggacgtctg gggccaaggg 360
accacggtca ccgtctcctc ag 382

<210> 42
 <211> 127
 <212> PRT
 <213> homo sapiens

<400> 42
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
 50 55 60
 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp His Tyr Tyr Asp Ser Ser Asp Tyr Leu Tyr Tyr Tyr Tyr
 100 105 110
 Gly Leu Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 43
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 43
 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcgagtc gggcattagc aattatttag cctgggtatca gcagaaacca 120
 gggaaagtgc ctaagctcct gatctatgct gcatccactt tgcaatcagg ggtcccatct 180
 cggttcagtgc gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaagatgttg caacttatta ctgtcaaaaag tataacagtg ccccgctcac ttctggcgga 300
 gggaccaagg tggagatcaa ac 322

<210> 44
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 44
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Val Ala Thr Tyr Tyr Cys Gln Lys Tyr Asn Ser Ala Pro Leu
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 45
 <211> 382
 <212> DNA
 <213> homo sapiens

<400> 45
 caggtgcagc tggaggagtc ggggggaggc gtgggtccagc ctgggaggtc cctgagactc 60
 tcctgtgcag cgtctggatt caccttcagt agctatggca tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtggcaatt atatggtatg atggaaatga taaatactat 180
 gcagactccg tgaagggccg cttcaccgtc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gagaggatat 300
 tactatgata gtagtgatta tctctactac tactacggta tggacgtctg gggccaaggg 360
 accacggtca ccgtctctctc ag 382

<210> 46
 <211> 127
 <212> PRT
 <213> homo sapiens

<400> 46
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ile Ile Trp Tyr Asp Gly Asn Asp Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Tyr Tyr Tyr Asp Ser Ser Asp Tyr Leu Tyr Tyr Tyr Tyr
 100 105 110
 Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 47
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 47
 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcgagtc gggcattagc aattatttag cctggtatca gcagaaacca 120
 gggaaagttc ctaacctcct gatctatgct gcatccactt tgcaatcagg ggtcccatct 180
 cggttcagtg cgagtggatc tgggacagat ttctctctca ccatcagcag cctgcagcct 240
 gaagatgttg cagcttatta ctgtcaaaag tgtaacagtg ccccgtaggac gttcggccaa 300
 gggaccacgg tggagatcaa ac 322

<210> 48
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 48
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Asn Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Ser Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Val Ala Ala Tyr Tyr Cys Gln Lys Cys Asn Ser Ala Pro Trp
 85 90 95
 Thr Phe Gly Gln Gly Thr Thr Val Glu Ile Lys
 100 105

<210> 49
 <211> 379
 <212> DNA
 <213> homo sapiens

<400> 49
 gaggtgcagc tgggtgcagtc gggaacagag gtgaaaaagc ccggggagtc tctgaagatc 60
 tcctgtaagg gttctggata caggtttacc agctactgga tcggctgggt gcgccagatg 120
 cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
 agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
 ctgcagtgga gcagcctgaa ggcctcggac accgccaatgt attactgtgc gagacatgga 300
 tcgtattact ataattcggg gagttattat aacgtctttg actactgggg ccaggggaacc 360
 ctggtcaccg tctcctcag 379

<210> 50
 <211> 126
 <212> PRT
 <213> homo sapiens

<400> 50
 Glu Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Arg Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Gly Ser Tyr Tyr Tyr Asn Ser Gly Ser Tyr Tyr Asn Val

	100		105		110
Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser					
	115		120		125

<210> 51
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 51
 gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcaagtc gggcattaga aatgatttag gctggtatca gcagaaacca 120
 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
 gggaccaagg tggaaatcaa ac 322

<210> 52
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 52
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 53
 <211> 376
 <212> DNA
 <213> homo sapiens

<400> 53
 caggtgcagc tgggtgcagtc gggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
 tcttgcaagg cttctggata caccttcacc agttatgata tcaactgggt gcgacaggcc 120
 actggacaag ggcttgagt gatgggatgg atgaacctta acagtggtaa cacaggctat 180
 gcacagaagt tccagggcag agtcaccatg accaggaaca cctccataag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaggcagt 300
 ggatacagct atggttacga ctactactac ggtatggacg tctggggcca agggaccacg 360
 gtcaccgtct cctcag 376

<210> 54

<211> 125
 <212> PRT
 <213> homo sapiens

<400> 54
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Ser Gly Tyr Ser Tyr Gly Tyr Asp Tyr Tyr Tyr Gly Met
 100 105 110
 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 55
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 55
 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcaattgcc gggcgagtc gggcattagc aatgatttag cctggatatca gcagaaacca 120
 gggaaagtgc ctaagctcct gatctatgct gcaccactt tgcaattagg ggtcccatct 180
 cgggttcagt gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaagatgttg caacttatta ctgtcaaaag tataacagtg cccattcac tttcggccct 300
 gggaccaaag tggatatcaa ac 322

<210> 56
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 56
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Asn Cys Arg Ala Ser Gln Gly Ile Ser Asn Asp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Thr Leu Gln Leu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Val Ala Thr Tyr Tyr Cys Gln Lys Tyr Asn Ser Ala Pro Phe
 85 90 95
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys

<210> 57
 <211> 379
 <212> DNA
 <213> homo sapiens

<400> 57
 caggtgcagc tgggtgcagtc gggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
 tcctgcaagg cttctggata ctcttcacc agttatgata tcaactgggt gcgacaggcc 120
 actggacaag ggcttgagt gatgggatgg atgaacccta acaatggtaa cacaggctat 180
 gcacagaagt tccagggcag agtcaccatg accaggaaca cctccataag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagagatatt 300
 gtagtggtgg taactgctac ggactactac tacggtatgg acgtctgggg ccaagggacc 360
 acggtcaccg tctctcag 379

<210> 58
 <211> 126
 <212> PRT
 <213> homo sapiens

<400> 58
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Met Asn Pro Asn Asn Gly Asn Thr Gly Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Ile Val Val Val Val Thr Ala Thr Asp Tyr Tyr Tyr Gly
 100 105 110
 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 59
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 59
 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcaagtca gggcattaga aatgatttag gctggtatca gcagaaacca 120
 gggaaagccc ctaagcgcct gatttttgct gcatccagtt tgccaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag catagtgggt accctccgac gtccggccaa 300
 gggaccaagg tggaaatcaa ac 322

<210> 60

<211> 107
 <212> PRT
 <213> homo sapiens

<400> 60
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 Phe Ala Ala Ser Ser Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Ser Gly Tyr Pro Pro
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 61
 <211> 376
 <212> DNA
 <213> homo sapiens

<400> 61
 caggttcagc tgggtgcagtc gggagctgag gtgaagaagc ctggggcctc agtgaaggctc 60
 tcctgcaagg ctctctggta cacctttacc agctatggta tcagctgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggatgg atcagcgctt acaatggtaa cacaaactat 180
 gcacagaagc tccagggcag agtcaccatg accacagaca catccacgag cacagcctac 240
 atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagatgtt 300
 gaatattact atgatggtag tggttattac tactttgact actggggcca gggaaccctg 360
 gtcaccgtct cctcag 376

<210> 62
 <211> 125
 <212> PRT
 <213> homo sapiens

<400> 62
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
 50 55 60
 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Val Glu Tyr Tyr Tyr Asp Gly Ser Gly Tyr Tyr Tyr Phe
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 63
 <211> 322
 <212> DNA
 <213> homo sapiens

<400> 63
 gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgtc gggcgagtc ggggtattag agctgggttag cctgggtatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatccattt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaggattttg catcttacta ttgtcaacag tctaacagtt tccctcggac gttcggccaa 300
 gggaccaagg tggagatcaa ac 322

<210> 64
 <211> 107
 <212> PRT
 <213> homo sapiens

<400> 64
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Ser Asn Ser Phe Pro Arg
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 65
 <211> 382
 <212> DNA
 <213> homo sapiens

<400> 65
 caggtgcagc tgggtgcagtc gggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
 tcttgcaagg cttctggata caccttcacc agttatgata tcaactgggt gcgacaggcc 120
 actggacaag ggcttgagtg gatgggatgg atgaacccta acagtgggtga cacaggctat 180
 gcacagaagt tccagggcag agtcaccatg accaggaaca cctccataag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt atttctgtgc gagaatgagg 300
 gatatagtggt ctacgagcta ttactactac ttctacggta tggacgtctg gggccaaggg 360
 accacggtca ccgtctcctc ag 382

<210> 66
 <211> 127

<212> PRT
 <213> homo sapiens

<400> 66
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Met Asn Pro Asn Ser Gly Asp Thr Gly Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Met Arg Asp Ile Val Ala Thr Ser Tyr Tyr Tyr Tyr Phe Tyr
 100 105 110
 Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 67
 <211> 334
 <212> DNA
 <213> homo sapiens

<400> 67
 gatattgtga tgactcagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc 60
 atctcctgca ggtctagtc gagcctcctg catagtaatg gatacaacta ttggtattgg 120
 tacctgctga agccagggca gtctccacag ctctgatct atttgggttc tagtcggggcc 180
 tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
 agcagagtgg aggctgagga tgttgggggt tattactgca tgcaaaactct acaaactatc 300
 accttcggcc aagggaacac actggagatt aaac 334

<210> 68
 <211> 111
 <212> PRT
 <213> homo sapiens

<400> 68
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30
 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Leu Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Ser Arg Ala Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Thr
 85 90 95
 Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 69
 <211> 379
 <212> DNA
 <213> homo sapiens

<400> 69
 gaggtgcagc tgggtgcagtc gggagctgag gtgaaaaagc ccggggagtc tctgaagatc 60
 tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg 120
 cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgccaaatac 180
 agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
 ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gagacactat 300
 gattacgttt ggaggaatta tcggtataca ggggtggttcg acccctgggg ccaggggaacc 360
 ctggtcaccg tctcctcag 379

<210> 70
 <211> 126
 <212> PRT
 <213> homo sapiens

<400> 70
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Ala Lys Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Tyr Asp Tyr Val Trp Arg Asn Tyr Arg Tyr Thr Gly Trp
 100 105 110
 Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 71
 <211> 325
 <212> DNA
 <213> homo sapiens

<400> 71
 gaaatttgtt tgacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60
 ctctcctgca gggccagtca gagggttagc agcagctact tagcctggta ccagcagaaa 120
 cctggccagg ctcccaggct cctcatctat ggtgcatcca acagggccac tggcatccca 180
 gacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 240
 cctgaagatt ttgcagtgtg ttactgtcag cagtatggta gctcactatt cactttcggc 300
 cctgggacca aagtggatat caaac 325

<210> 72
 <211> 108

<212> PRT

<213> homo sapiens

<400> 72

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Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1             5             10             15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
      20             25             30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
      35             40             45
Ile Tyr Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
      50             55             60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65             70             75             80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Leu
      85             90             95
Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
      100             105
```

<210> 73

<211> 379

<212> DNA

<213> homo sapiens

<400> 73

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caggtgcagc tgggtgcagtc gggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcttgcaagg cttctggata caccttcacc acttatgata tcaactgggt gcgacaggcc 120
actggacaag ggcttgagtg gatgggatgg atgaacccta acagtggtaa cacaggctat 180
gcacagaagt tccagggcag agtcaccatg accaggaaca cctccctaag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggcogtgt attactgtgc gagagatatt 300
gtagtgggtg tagctgctac caactactac aacggtatgg acgtctgggg ccaagggacc 360
acggtcaccg tctcctcag                                     379
```

<210> 74

<211> 126

<212> PRT

<213> homo sapiens

<400> 74

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1             5             10             15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
      20             25             30
Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
      35             40             45
Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
      50             55             60
Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Leu Ser Thr Ala Tyr
65             70             75             80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
      85             90             95
Ala Arg Asp Ile Val Val Val Val Ala Ala Thr Asn Tyr Tyr Asn Gly
      100             105             110
Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
```

<210> 75
 <211> 560
 <212> DNA
 <213> homo sapiens

<400> 75
 tcagggtgcag ctggagcagt cgggagcaga ggtgaaaaag cccggggagt ctctgaagat 60
 ctccctgtaag ggttctggat ataattttat cagctactgg atcgggctggg tgcgccagat 120
 gccccgggaaa ggcctggagt ggatggggat catctctcct ggtgactctg ataccagata 180
 cagcccgtcc ttccaaggcc aggtcaccat ctcageccgac aagtccatca gcaccgccta 240
 cctgcagtgg agcagcctga aggcctcgga caccgccatg tattactgtg cgagacagta 300
 tgattacgtt tgggggagtt atcgggtatac aggggtgggtc gacccctggg gccagggaac 360
 cctgggtcacc gtctcctcag cctccaccaa gggcccacatg gtcttcccc tggcgccctg 420
 ctccaggagc acctccgaga gcacagcggc cctgggctgc ctggtcaagg actacttccc 480
 cgaaccgggtg acgggtgtcgt ggaactcagg cgctctgacc agcggcgtgc acaccttccc 540
 agctgtccta cagtcctcag 560

<210> 76
 <211> 186
 <212> PRT
 <213> homo sapiens

<400> 76
 Gln Val Gln Leu Glu Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Ile Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Ser Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Gln Tyr Asp Tyr Val Trp Gly Ser Tyr Arg Tyr Thr Gly Trp
 100 105 110
 Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 115 120 125
 Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr
 130 135 140
 Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 145 150 155 160
 Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 165 170 175
 His Thr Phe Pro Ala Val Leu Gln Ser Ser
 180 185

<210> 77
 <211> 359
 <212> DNA

<213> homo sapiens

<400> 77

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gaaacgcagc tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60
ctctcctgca gggccagtc gagtgtagc agcaacttag cctggtacca gcagaaacct 120
ggccaggctc ccaggctcct catctatggt gcatccacca gggccattgg tatcccagcc 180
aggttcagtg gcagtggtgc tgggacagag ttactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtcagcag tataataact ggccgctcac tttcggcgga 300
gggaccaagg tggagatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcc 359
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<210> 78

<211> 119

<212> PRT

<213> homo sapiens

<400> 78

```
Glu Thr Gln Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1             5             10             15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
      20             25             30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
      35             40             45
Tyr Gly Ala Ser Thr Arg Ala Ile Gly Ile Pro Ala Arg Phe Ser Gly
      50             55             60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65             70             75             80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Leu
      85             90             95
Thr Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
      100            105            110
Pro Ser Val Phe Ile Phe Pro
      115
```

<210> 79

<211> 514

<212> DNA

<213> homo sapiens

<400> 79

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gagcagaggt gaaaaagccc ggggagtcct tgaagatctc ctgtaagggt tctggatata 60
atthttatcag ctactggatc ggctgggtgc gccagatgcc cgggaaaggc ctggagtggga 120
tggggatcat ctctcctggt gactctgata ccagatacag cccgtccttc caaggccagg 180
tcaccatctc agccgacaag tccatcagca ccgcctacct gcagtggagc agcctgaagg 240
cctcggacac cgccatgtat tactgtgcga gacagtatga ttacgtttgg gggagttatc 300
ggtatacagg gtggttcgac ccctggggcc agggaaccct ggtcaccgtc tcctcagcct 360
ccaccaaggg cccatcggtc ttccccctgg cgccctgctc caggagcacc tccgagagca 420
cagcggccct gggctgcctg gtcaaggact acttccccga accggtgacg gtgtcgtgga 480
actcaggcgc tctgaccagc ggcgtgcaca cctt 514
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<210> 80

<211> 170

<212> PRT

<213> homo sapiens

<400> 80

```
Ala Glu Val Lys Lys Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly
 1           5           10           15
Ser Gly Tyr Asn Phe Ile Ser Tyr Trp Ile Gly Trp Val Arg Gln Met
          20           25           30
Pro Gly Lys Gly Leu Glu Trp Met Gly Ile Ile Ser Pro Gly Asp Ser
          35           40           45
Asp Thr Arg Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala
          50           55           60
Asp Lys Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala
65           70           75           80
Ser Asp Thr Ala Met Tyr Tyr Cys Ala Arg Gln Tyr Asp Tyr Val Trp
          85           90           95
Gly Ser Tyr Arg Tyr Thr Gly Trp Phe Asp Pro Trp Gly Gln Gly Thr
          100          105          110
Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
          115          120          125
Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
          130          135          140
Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145          150          155          160
Ser Gly Ala Leu Thr Ser Gly Val His Thr
          165          170
```

<210> 81

<211> 462

<212> DNA

<213> homo sapiens

<400> 81

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gaaatagaga tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60
ctttcctgca gggccagtca gagtgtagc agcaatttag cctggtacca gcagaaacct 120
ggccaggctc ccaggctcct catctatggt gcatccacca gggccattgg tatcccagcc 180
aggttcagtg gcagtggggc tgggacagag ttcactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtcagcag tataataact ggccgctcac ttccggcgga 300
gggaccaagg tggagatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcga 360
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 420
cccagagagg ccaaagtaca gtggaagggt gataacgccc tc 462
```

<210> 82

<211> 154

<212> PRT

<213> homo sapiens

<400> 82

```
Glu Ile Glu Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1           5           10           15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
          20           25           30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
          35           40           45
Tyr Gly Ala Ser Thr Arg Ala Ile Gly Ile Pro Ala Arg Phe Ser Gly
          50           55           60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
```

65		70		75		80									
Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Asn	Asn	Trp	Pro	Leu
			85					90						95	
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala
			100					105					110		
Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly
		115					120					125			
Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala
	130					135					140				
Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu						
145					150										

<210> 83
 <211> 21
 <212> DNA
 <213> rattus norvegicus

<400> 83
 acaagatggg gaaggtcggg g 21

<210> 84
 <211> 20
 <212> DNA
 <213> rattus norvegicus

<400> 84
 agaaggcagc cctggtaacc 20

<210> 85
 <211> 22
 <212> DNA
 <213> rattus norvegicus

<400> 85
 cggatttggc cgtatcggac gc 22

<210> 86
 <211> 19
 <212> DNA
 <213> rattus norvegicus

<400> 86
 ttcttgatct ggccccat 19

<210> 87
 <211> 21
 <212> DNA
 <213> rattus norvegicus

<400> 87
 ttgacgctgc tgggtgttaca g 21

<210> 88
 <211> 23

<212> DNA
 <213> rattus norvegicus

 <400> 88
 cagtgcagcg cttcacctcc aca 23

 <210> 89
 <211> 20
 <212> DNA
 <213> rattus norvegicus

 <400> 89
 gcaagacgcg tacagaggtg 20

 <210> 90
 <211> 19
 <212> DNA
 <213> rattus norvegicus

 <400> 90
 gaagttggca ttggtgcga 19

 <210> 91
 <211> 24
 <212> DNA
 <213> rattus norvegicus

 <400> 91
 tccagatctc gcggaacctc atcg 24

 <210> 92
 <211> 20
 <212> DNA
 <213> rattus norvegicus

 <400> 92
 cagcaagttg cagctctcca 20

 <210> 93
 <211> 20
 <212> DNA
 <213> rattus norvegicus

 <400> 93
 gacaactctc tcatgccggg 20

 <210> 94
 <211> 25
 <212> DNA
 <213> rattus norvegicus

 <400> 94
 cgacaaggag cagaacggag tgcaa 25

 <210> 95

<211> 20
<212> DNA
<213> rattus norvegicus

<400> 95
atcgggacac ttttgcgact 20

<210> 96
<211> 20
<212> DNA
<213> rattus norvegicus

<400> 96
gtgcctgtca cccgaatgtt 20

<210> 97
<211> 23
<212> DNA
<213> rattus norvegicus

<400> 97
ttgcgcaatg ccaacctcag gag 23